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APPLICATION NO.	FILING DAT	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/689,948	10/22/2003	Howard E. Rhodes	M4065.0954/P954	4026	
24998	7590 03/1	0/2005	EXAN	EXAMINER	
DICKSTEI	N SHAPIRO MO	LOUIE, V	LOUIE, WAI SING		
2101 L Stree	et, NW				
Washington	DC 20037	ART UNIT	PAPER NUMBER		
			2814		
			DATE MAILED: 03/10/200	15	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO 90C (Rev 10/03)

	Application No.	Applicant(s)			
	10/689,948	RHODES, HOWARD E.			
Office Action Summary	Examiner	Art Unit			
	Wai-Sing Louie	2814			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, is less than thirty (30) days, a report of the communication of the period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statue that the period for reply will, by statue and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timply within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONET	nety filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 22	February 2005.				
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) Claim(s) 1-49 is/are pending in the application. 4a) Of the above claim(s) 18-49 is/are withdrawn from consideration. 5) Claim(s) 7-17 is/are allowed. 6) Claim(s) 1-6 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and applicant may not request that any objection to the Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Examination is objected to by the Examination The specification The sp	cepted or b) objected to by the E e drawing(s) be held in abeyance. See ction is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1/22/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

Application/Control Number: 10/689,948

Art Unit: 2814

DETAILED ACTION

Applicant's election without traverse of Group I, claims 1-17, in the reply filed on 2/22/05 are acknowledge. It is suggested that non-elected claims 18-49 be canceled in the response to this Office Action.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Hokari (US 5,654,565).

With regard to claim 1, Hokari discloses a method of forming a CCD (col. 5, line 16 to col. 10, line 45 and fig. 9) comprising the steps of:

- forming at least one photosensor region (col. 3, lines 33-45 and fig. 9);
- forming a first electrode layer 41 over the substrate 11 in a pixel region (under microlens 71 in fig. 9) and a periphery region (charge transfer region in fig. 9);
- forming a first dielectric layer 31 over the first electrode 41 (fig. 9);
- forming a second dielectric layer 33 over the first dielectric layer 31 (fig. 9); and
- forming a second electrode layer 56 over the second dielectric layer 33 (fig. 9).

Page 2

With regard to claims 2 and 4, Hokari discloses the first electrode layer 41 and the second electrode layer 56 are formed of a polysilicon material (col. 5, lines 46-47 and col. 10, lines 1-2).

With regard to claim 3, Hokari discloses the first dielectric layer 31 is formed of silicon oxide (col. 5, line 51) and second dielectric layer 33 is formed of silicon nitride (col. 5, line 59).

With regard to claim 5, Hokari discloses the CCD is a photodiode (col. 3, lines 33-45).

With regard to claim 6, Hokari discloses the photodiode is a p-n-p diode (see layer 25, 13, and 21 in fig. 9).

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

The prior art of record does not disclose or suggest either in singly or in combination the following limitations and other elements in the claims:

Reference Hokari does not disclose patterning a second electrode layer in the pixel region and the periphery region, such that one of the pixel region and periphery region comprises the first dielectric layer, and the other of the pixel region and the periphery region comprises both the first dielectric layer and the second dielectric layer.

Therefore, the above references do not disclose the claimed invention of present application and claims 7-17 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wai-Sing Louie whose telephone number is (571) 272-1709. The examiner can normally be reached on 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

Wsl March 2, 2005.